

**Process for manufacturing of highly filled mouldings from polymethylmethacrylate**

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**Abstract**

The invention relates to a process for the production of filled mouldings from polymethyl methacrylate by bulk polymerisation in a suitable polymerisation chamber, where a liquid polymer precursor PV containing the monomers is prepared in a manner known per se, the particulate filler FS is introduced into PV with high-speed stirring with formation of a suspension SP in amounts of 30 to 80 % by weight based on the suspension SP formed, and a free-radical initiator and a solid, particulate polymer PP are added to the suspension SP just before introduction into the polymerisation chamber, in amounts of from 1 to 20 % by weight, based on the suspension SP, in uniform distribution, the suspension is subsequently introduced into the polymerisation chamber, the polymerisation is then carried out, and demoulding is effected.

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